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SEYMOUR'S
PATENT
FANS AND VENTILATORS.



SOLD BY
SEYMOUR & WHITLOCK,
43 LAWRENCE STREET,
NEWARK, N. J.

ESTIMATES GIVEN FOR VENTILATING

CHURCHES,

HOSPITALS,

FACTORIES,

HOTELS,

RESTAURANTS,

MILLS,

STABLES,

MALT HOUSES,

HOT BLAST DRYING-ROOMS for

Hats,

Lumber,

Wool,

Glue,

Cotton,

Leather,

&C., &C., &C.

*PLANS AND SPECIFICATIONS DRAWN
BY EXPERTS.*

SEYMOUR'S

PATENT

Ventilating Machinery Fans,

FOR

DRYING AND VENTILATING,

OR REMOVING

DUST, STEAM, SMOKE

AND

Foul or Heated Air.

ESTIMATES GIVEN ON PLANS.

SEND FOR DISCOUNTS.

PLATE 1.



ELECTRIC OFFICE VENTILATOR.

A quiet and positive ventilator. Can be used as an agitator or exhauster.

ELECTRIC OFFICE VENTILATORS.

BUILT IN TWO SIZES.

The objection to a combined electric motor and fan is overcome in this arrangement. The motor being out of the direct air current keeps clean and does not clog with dust. The belt is pure rubber, made endless.

Both the motor and fan have *Self-oiling Bearings.*

CAPACITIES AND PRICE.

Size of Fan.	Size of Motor.	Revolutions of Fan.	Cubic Feet per Minute.	Price F. O. B. Newark.
18 inches.	$\frac{1}{8}$ H. P.	550	1,600	\$85.00
24 "	$\frac{1}{8}$ H. P.	430	2,900	90.00
36 "	$\frac{1}{2}$ H. P.	580	9,200	293.00

WRITE FOR DISCOUNTS.

PLATE 2.



SEYMOUR'S PATENT EXHAUST FAN.

For Ventilating, Drying, Cooling, or moving economically
large bodies of air.

POSITIVELY NO BACK DRAFT.

The Fan shown in Plate 2 is a well-built, strong and effective machine. The peculiar construction of the blades and conical frame make a Fan that in one year has won for itself a wide reputation.

It will move more air for the power used than any fan ever made.

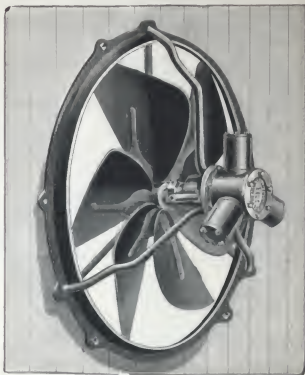
It has Self-oiling Bearings, and is in every way well built and durable.

Size.	Speed.	Horse Power	Capacity Cubic Feet per Minute	Pulley		Price	Box Net.
				Diam.	Face		
18	1,000	.24	3,100	3	2½	\$4.00	.80
24	1,000	.59	7,200	4	2½	5.00	1.00
30	1,000	.86	12,100	6	2½	65.00	1.25
36	1,000	1.18	17,900	8	2½	85.00	1.50
42	1,000	1.90	25,600	8	2½	110.00	1.75
48	800	2.15	34,400	10	2½	125.00	2.00

The above are about the maximum speeds, and it is better to run fans slower. If required, the power at any speed will be given.

SEND FOR DISCOUNTS.

PLATE 3.



COMBINED FAN AND AUTOMATIC ENGINE.

The best combination for any place where it is difficult to transmit power. Will run on either steam or compressed air.

ADVANTAGES.

Only needs filling lubricator daily.

Will start itself, having no dead centre.

All the working parts of engine run in oil.

Easily applied.

All fans and engines sent out by us are run for ten consecutive hours at full speed before leaving the factory, and not until they have run cool and quiet for that time are they allowed to be shipped.

For the greatest economy, fans not larger than 48 inches should ever be used.

The speed of the blades in large fans differs so much, that between the centre and the rim eddies are formed, which cause a waste of power.

EXAMPLE.—96-inch fan running 300 revolutions per minute :
Speed of blades 12 inches from centre, 1,884.96 ft. per minute ;
Speed of blades at rim, 7,539.84 ft. per minute.

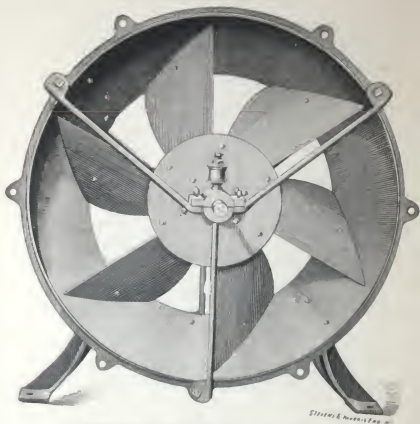
Lubricators should not be smaller than one-half pint.
Engines running 800 and over should have larger.

PRICES.

36-inch Fan, with 3-cylinder engine attached,	-	\$250.00
48-inch " " " " " "	- -	330.00

Other sizes with engines attached, when required.

PLATE 4.



PRESSURE FAN.

For forcing air through long tubes to supply forced ventilation for ships, dry-rooms, kilns, jewelers' gas houses, gas irons, &c.

The above cut represents a 24-inch Seymour Patent Fan, and it is the only Exhaust Fan made that will work against back pressure.

PLATE 5.



BACK VIEW.



FRONT VIEW.

When air is to be forced through long pipes with a back pressure of 2 to 3 inches water column, a Seymour Patent Pressure Hood is a great advantage. It allows of an increase of pressure and forms a solid current without eddies.

PRICES OF PRESSURE FANS AND HOODS.

Size.	Pulley.		Price of Fan.	Price of Hood, Net.	Box Fan, Net.	Box Hood, Net.
	Diam.	Face.				
18 inches.	3	2½	\$45.00	\$5.25	\$0.75	\$0.75
24 "	4	2½	55.00	6.60	1.00	.75
36 "	6	2½	95.00	10.20	1.25	1.00
48 "	10	2½	135.00	17.50	2.00	1.50

SEND FOR DISCOUNTS.

PLATE 6.

ALL KINDS.

ALL SIZES.



40,000 IN USE.

SEYMOUR'S PAT. ROTARY VENTILATING FANS

Keep away flies and cool the air.

NOISELESS, DURABLE, EFFECTIVE.

Each Fan has a patent clutching mechanism, so that any Fan in a room can be slowed or stopped without affecting the rest.

SEND FOR CATALOGUE AND PRICES.

VENTILATION

OF

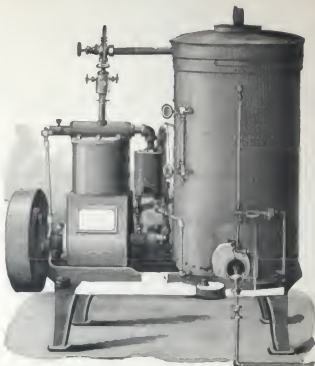
Public Schools, Theatres and Churches.

We are in possession of patents that make our system of ventilating Halls, School-rooms, etc., etc., the best. We can ventilate the poorest constructed building satisfactorily: give a positive supply of fresh air in a room or hall without causing cross drafts or cold currents. In winter time, when all windows are necessarily closed, ventilation is most needed, because the same air is breathed over and over again until it becomes loaded with impure gases.

We will make plans and specifications for properly ventilating any room or building when called upon. All such work done by experts and according to well-established hygienic laws.

THE ACME AUTOMATIC SAFETY ENGINE.

GREATEST ECONOMY.



LEAST TROUBLE.

500 OF THESE ENGINES SOLD DURING 1888-9.

Adapted to all kinds of light work.

Do not increase insurance rates.

PRICE LIST

OF THE

ACME AUTOMATIC SAFETY ENGINES.

With our Patent Non-explosive Sectional Boiler.
Kerosene Oil or Natural Gas as Fuel.

One H. P., weight 400 lbs., extreme floor space 32x24 in., Pulley 9 in. diameter, 500 revolutions per minute; fuel, Kerosene Oil. Price,	\$150.00
Two H. P., weight 620 lbs., floor space 42x28 in., Pulley 15 in. diameter, 400 revolutions per minute; fuel, Kerosene Oil. Price,	225.00
Three H. P., weight 750 lbs., floor space 46x30 in., Pulley 15 in. or 18 in., as ordered, 400 to 450 revolutions per minute; fuel, Kerosene Oil. Price,	275.00
Four H. P., weight 1,100 lbs., floor space 52x38 in., Pulley 20 in. diameter, 400 revolutions per minute; fuel, Kerosene Oil. Price,	350.00

→*THE FUEL.*←

The fuel is kerosene oil of 110° to 115° fire test (this grade giving the best results), atomized by a steam jet, and controlled by an automatic fire regulator that reduces or cuts off entirely the supply of fuel when the steam pressure reaches the limit at which the regulator is adjusted. This fire gives a most intense flame and heat, is easily controlled, makes more even and constant supply of steam from the same amount of heating surface than any other fuel, except natural gas mingled with air, and it is a matter of doubt which of these two gives the hottest flame. The fuel is cleanly; no dust, ashes or smoke, when the fire is properly adjusted, and *cheaper than hard coal at \$4.50 per ton*. As it is not subjected to any heat or flame until it enters the *fire tube*, it is as safe, or, rather, much safer than an *oil lamp*.

→*TESTIMONIALS.*←

MESSRS. SEYMOUR & WHITLOCK, Newark, N. J. :

Gentlemen—The Seymour Exhaust Fan which you furnished us gives entire satisfaction.

Very truly, TIFFANY & CO.
THOMAS SHAW, Supt.

CLARK THREAD COMPANY,
NEWARK, N. J., November 26th, 1890.

MESSRS. SEYMOUR & WHITLOCK,
43 Lawrence St., Newark, N. J. :

Dear Sirs—In response to yours of November 24th, would say that the Exhaust Fans you put in for us are working very satisfactorily.

Yours truly,
CLARK THREAD COMPANY.
per CONTRELL.

THE GERLACH,
Strictly Fire-Proof Family Hotel,
27th Street, bet. Broadway & 6th Ave.,
NEW YORK, November 25th, 1890.

MESSRS. SEYMOUR & WHITLOCK,
43 Lawrence St., Newark, N. J. :

Gentlemen—Being asked for a testimonial by you, I beg to say that with all my experience (and I can assure you it has been varied and expensive) with exhaust fans and ventilating engines, I think with your house I found not only satisfactory results, but men who are conscientious and will economically do any work that they are engaged to do ; will send in their bill for changes that they agreed to, without charging a long bill of extras, which alters the general face of the contract.

After spending with other ventilating concerns in New York about \$500, which was money absolutely thrown away, your Mr. Seymour placed a fan in my house, I think at a cost of \$190, which has given absolute satisfaction and no trouble. Therefore, I take great pleasure in recommending your house.

Yours truly, CHARLES A. GERLACH.

POOR DRAFT IN BOILERS.

The usual way to force draft in boilers has been to run a pipe from a centrifugal blower into the ash-pit. The concentrated blast under the grate-bars causes the fire to burn in spots and prevents the working of a damper regulator in the stack. Because, if your damper closes, your blast must stop, or fill your boiler-room with dust and gas.

Our method is to use a SEYMOUR PRESSURE FAN and raise the pressure on the whole boiler-room, running the boilers with open doors. The fire burns evenly. The boiler-room is cool, and the damper in stack works as well as if the fire was not forced.

DRYING HATS.

It is a well-known fact that hats dried at a low temperature come out better than hats that have been subjected to great heat. Our system is to dry the hats at a low temperature, by using the same air over and over again until it becomes nearly saturated, and making a positive circulation of *air around each hat and in each hat.*

For low first cost, economy of power and steam, and results shown, we claim that the SEYMOUR HAT DRYER stands unequaled.

Plans and estimates given on application.

IN ORDERING FANS.

Please state what work the fans have to do and under what conditions, so that we may be able to give you the benefit of our experience in selecting the proper size of fan, speed at which to run it, and style of fan best adapted to your work.

Unscrupulous dealers often claim that a fan at a given speed will discharge so much air, regardless of conditions. That claim is absurd. A fan that will discharge 20,000 cubic feet per minute from a hotel kitchen that has numerous windows will, at the same speed, only discharge about 4,000 cubic feet, and only 2,000, from a malt kiln, when the flume is covered.

We have our customers on actual tests which we have been in great haste to make. We have carefully measured fans under all conditions, and have satisfied ourselves that much of the information in fan literature is truly guess-work, and rather to deceive purchasers. It being impossible to print a catalogue giving all the different conditions of ventilation (no two places being alike), we ask that you describe to us your room and what you require, and then we can tell you the cheapest and best way to obtain satisfactory results.

A FEW PLACES VENTILATED BY SEYMOUR'S FANS.

Grand Union Hotel, Forty-second street, New York.

Gerlach Hotel, Twenty-seventh Street.

Glenham Hotel, Fifth Avenue.

Smith & McNell's Hotel, Washington street.

Hygeia Hotel, Old Point Comfort, Va.

Roger's Hotel, Richmond, Va.

Naething's Restaurant, Broadway, New York.

Currier's Rest, Fulton street.

Garc Ninkles' Restaurant.

Clark Thread Company, Newark, N. J.

Tiffany & Co.

Forty Second Street R. R. Co. Station, New York.

Mason-Brenley Co., Macon, Ga.

Central R. R. of N. J.

Lehigh Valley R. R.

Niagara Insurance Co.

German-American Insurance Co.

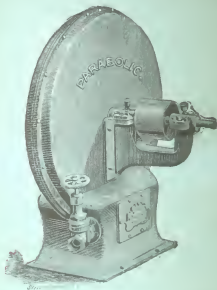
Germania Insurance Co.

Fourth National Bank, New York.

And hundreds of others.

SEYMOUR'S PATENT
PARABOLIC
WATER MOTOR.

ECONOMICAL IN
WATER.



GIVES A
POSITIVE POWER.

SOLD BY
SEYMOUR & WHITLOCK,

43 Lawrence Street,

NEWARK, N. J., U. S. A.